

FIG.1

CELL A

CELL B

5 FIG.2

FREQUENCY

TIME

CELL A

CELL B

10 COLLISION OF HOPPING PATTERNS

FIG.3

QUALITY

SYMBOL

15 DEGRADATION IN QUALITY DUE TO COLLISION

FIG.4

10 RADIO TRANSMISSION APPARATUS

TRANSMISSION DATA

20 11 CODING SECTION

INFORMATION OF THE NUMBER OF RETRANSMISSIONS

12 MODULATION SECTION

13 SUBCARRIER MAPPING SECTION

14 MULTIPLEXING SECTION

25 PILOT SEQUENCE

15 S/P TRANSFORM SECTION

16 IFFT SECTION

17 GI INSERTING SECTION

18 RF SECTION

FIG.5

5 20 RADIO RECEPTION SECTION

22 RF SECTION

23 GI REMOVING SECTION

24 FFT SECTION

25 DEMODULATION SECTION

10 26 DECODING SECTION

DECODED DATA

FIG.6

11 CODING SECTION

15 TRANSMISSION DATA

30 CRC ADDING SECTION

31 INTERLEAVER

32 OUTER CODING PROCESSING SECTION

33 INNER CODING PROCESSING SECTION

20 INFORMATION OF THE NUMBER OF RETRANSMISSIONS

FIG.7(A)~FIG.7(C) FIG.8(A)~FIG.8(C)

SYSTEMATIC BITS

25 FIG.7(B) FIG.7(C) FIG.8(B) FIG.8(C)

PARITY BITS

FIG.7(C) FIG.8(C)

TURBO PARITY BITS

FIG.9

5 26 DECODING SECTION  
 DEMODULATED DATA  
 40 45 DIVERTING SECTION  
 SYSTEMATIC PLUS CRC  
 41 TURBO DECODER  
 10 RS PARITY  
 TURBO PARITY  
 42 DEINTERLEAVER  
 43 COMBINING SECTION  
 44 BUFFER  
 15 46 47 BUFFER  
 48 49 50 REED-SOLOMON DECODER  
 51 52 53 CRC CHECK

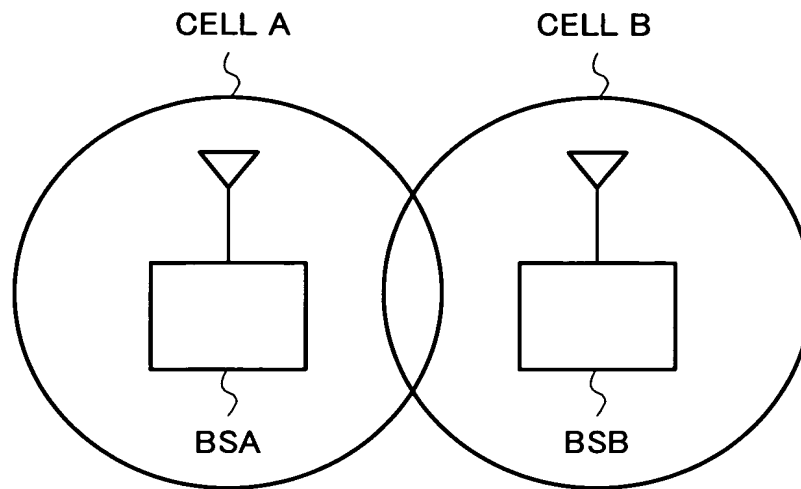


FIG.1 (PRIOR ART)

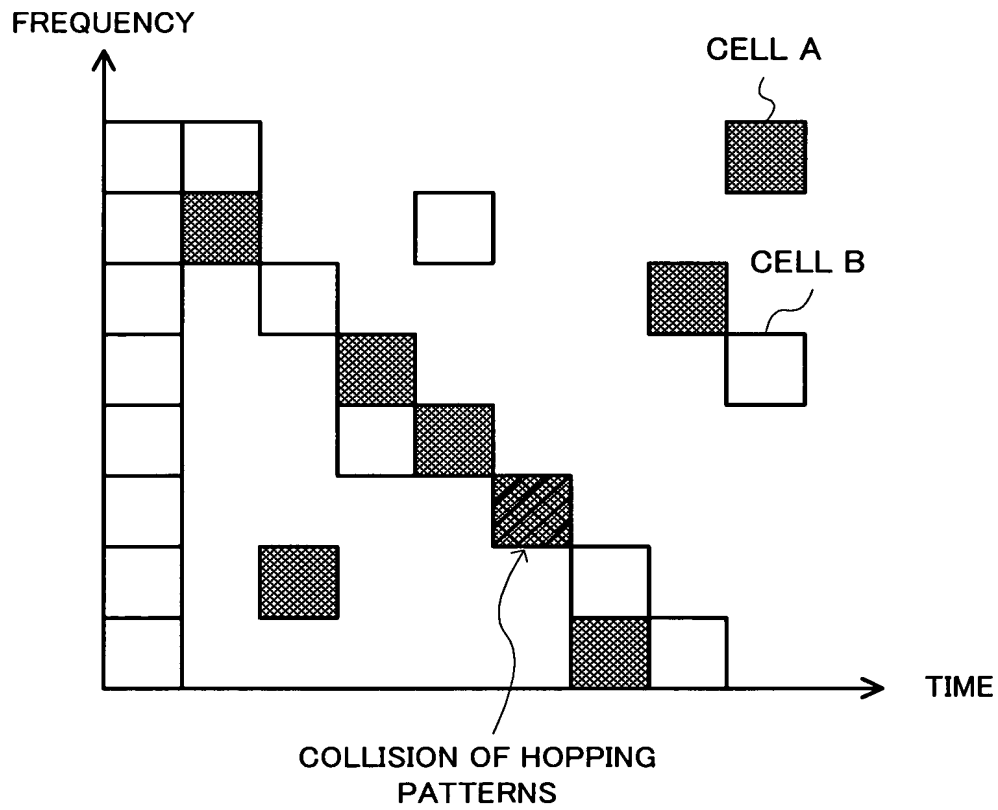


FIG.2 (PRIOR ART)

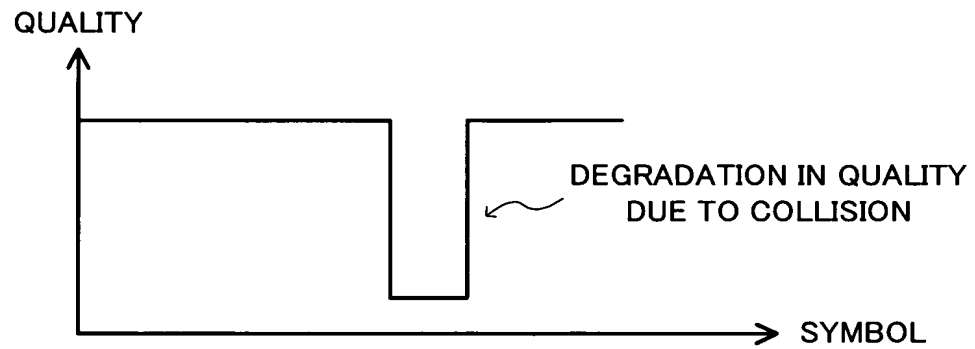


FIG.3 (PRIOR ART)

## 10 RADIO TRANSMISSION APPARATUS

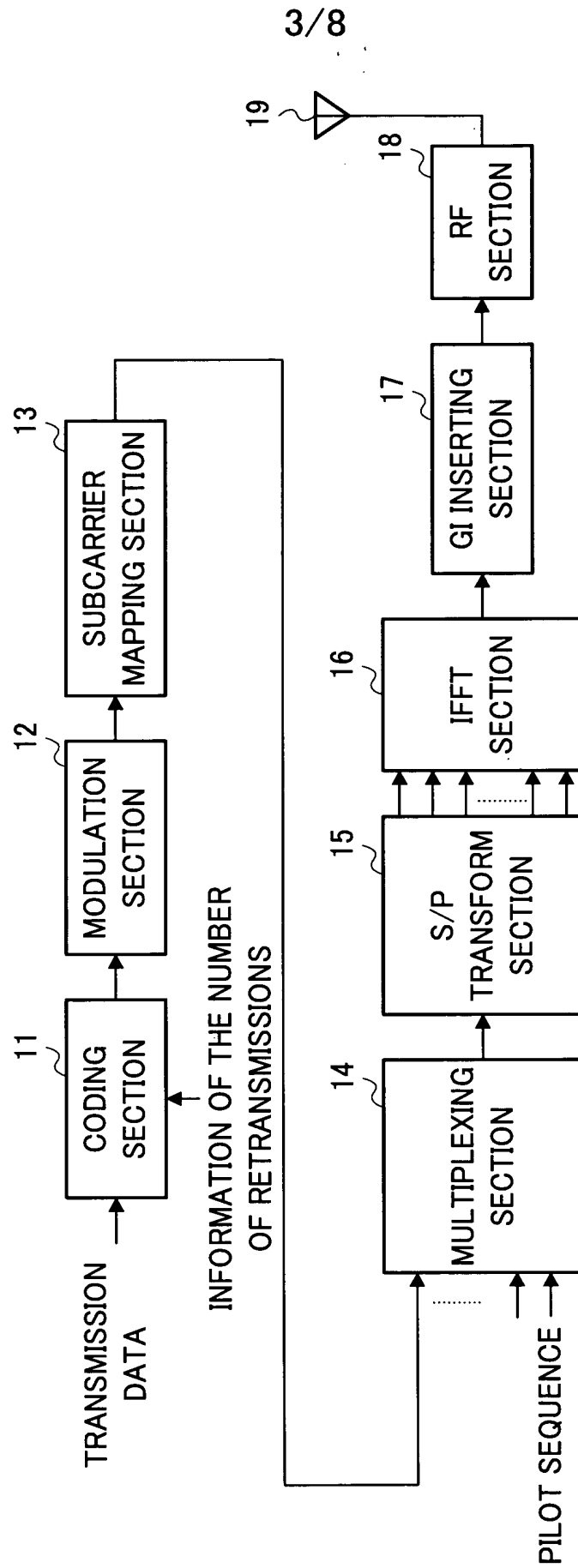


FIG.4

20 RADIO RECEPTION SECTION

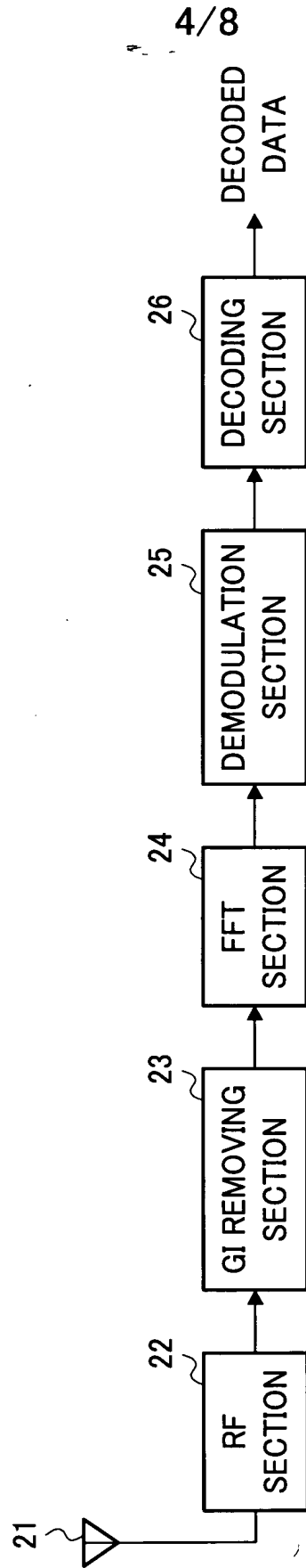


FIG.5

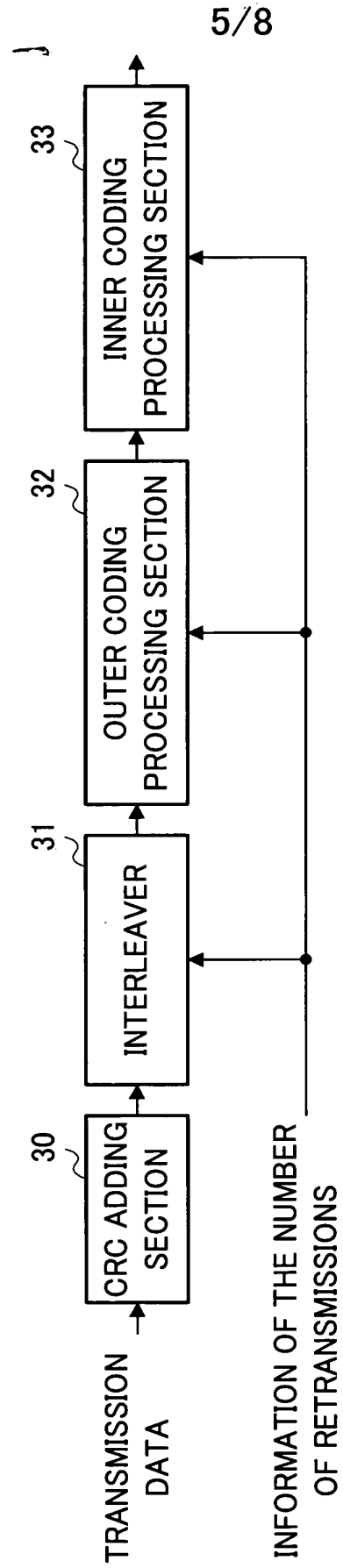
11 CODING SECTION

FIG.6



FIG.7(A)

SYSTEMATIC BITS	CRC
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FIG.7(B)

SYSTEMATIC BITS	CRC	RS PARITY BITS (R1)
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FIG.7(C)

SYSTEMATIC BITS	CRC	RS PARITY BITS (R1)	TURBO PARITY BITS (T1)
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FIG.8(A)

SYSTEMATIC BITS	CRC
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FIG.8(B)

SYSTEMATIC BITS	CRC	RS PARITY BITS (R2)
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FIG.8(C)

SYSTEMATIC BITS	CRC	RS PARITY BITS (R2)	TURBO PARITY BITS (T2)
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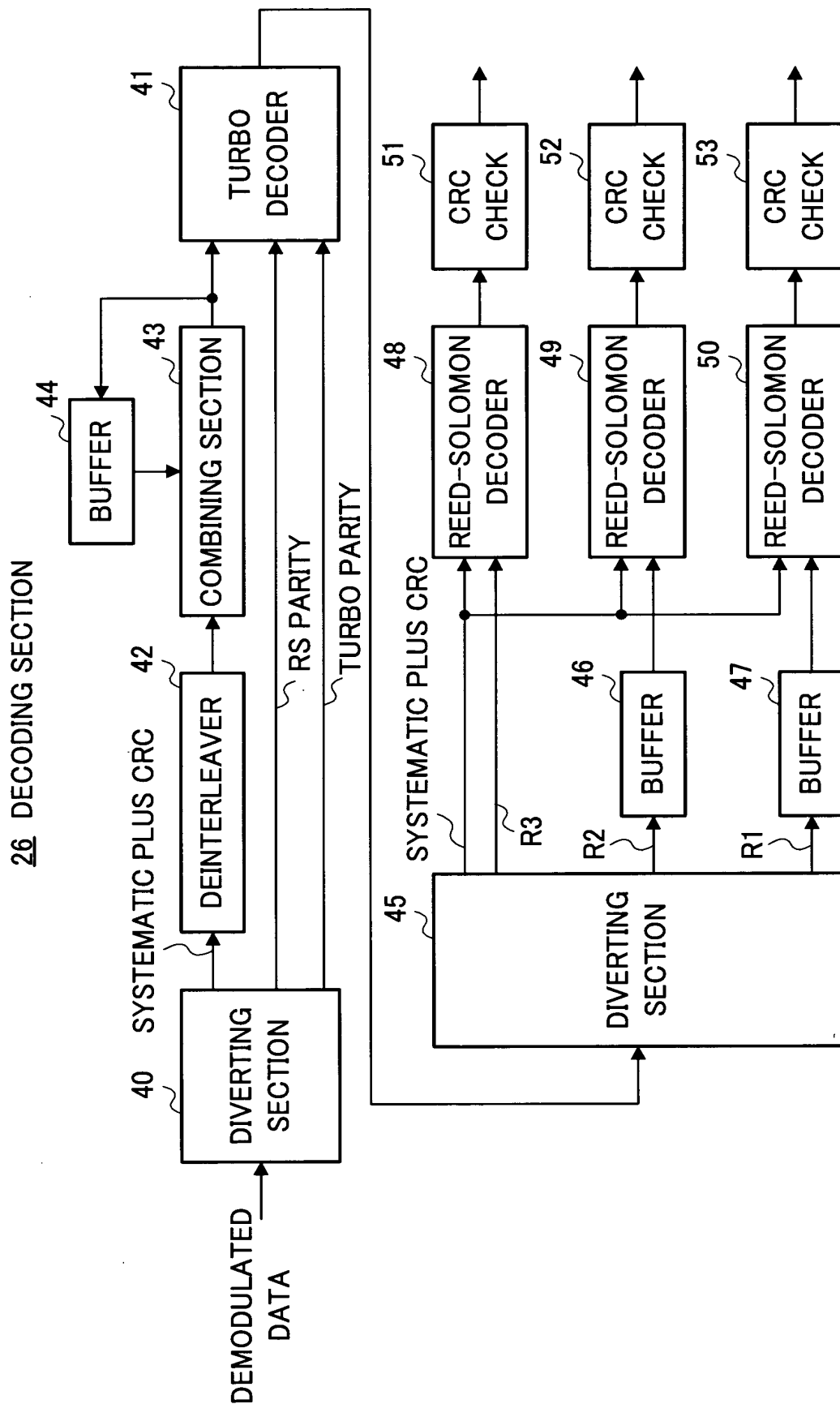


FIG.9